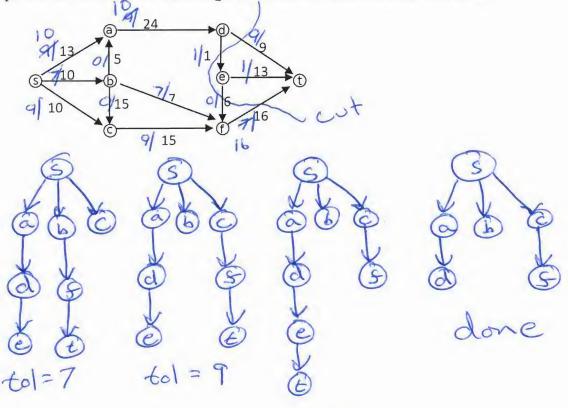
to1=9

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Graph Theory Quiz 3 (7 June 2019) Open book, open notes, open neighbor.

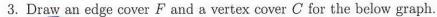
1. Use Ford-Fulkerson/Edmonds-Karp to find the maximum flow on the below network. Report a feasible flow for each edge as well as the max sum into the sink.

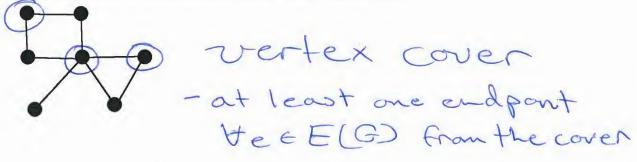


to1=1 Max flow = 9+7+9+1=

2. What is the size of the minimum cut? Which edges comprise the cut?

Min out = max flow = [76] Edges cut = {(d,t), (d,e), (f,t)}





4. Either draw a perfect match or prove one doesn't exist by identifying a vertex set S that doesn't satisfy Tutte's Condition for the below graphs.

